



New Hampshire Department of Transportation

Qualified Products List

Issue 2006-1

May 12, 2006

Products appearing on this list have been prequalified by the Department for general use. Unless noted otherwise, these products may be used on Highway and Bridge projects, under the Section/Item Number indicated, without further testing. A Certificate of Compliance is required for these materials. A product that falls into one of these categories and is not listed shall not be used, unless qualified through written request to the NHDOT, Bureau of Materials & Research. Such request shall be made with sufficient lead-time to allow for any necessary testing and/or research.

Inclusion of a product on this list does not imply that the product meets any or all applicable State or Federal regulations related to safety or environmental issues in effect at the time. The manufacturer's Material Safety Data Sheet (MSDS) should be referred to before use of any product appearing on this list.

NOTICE: Report any failure, incompatibility or other problem associated with any product on this list to:

Research Supervisor, NHDOT Bureau of Materials & Research
PO Box 483, Concord, NH 03302-0483
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Fax: (603) 271-8700
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SECTION 403 - HOT BITUMINOUS PAVEMENT

A. Not currently used

B. ITEM 403.1109 - MODIFIER FOR HIGH STRENGTH HOT BITUMINOUS PAVEMENT

Use only when specified.

Manufacturer:

American Gilsonite Co.

Product:

Gilsonite HMA Modifier (8% by weight of asphalt cement)

C. ITEM 403.6 - PAVEMENT JOINT ADHESIVE

Manufacturer:

Crafco, Inc.

Product:

Crafco Pavement Joint Adhesive

SECTION 413 - HOT-POURED CRACK SEALANT

A. ITEM 413.1 - HOT POURED CRACK SEALANT (AASHTO M 324, Type II)

Note: Acceptance of actual shipments will be based on test results of samples taken at the construction site.

Manufacturer:

American Permaquik

Crafco Inc.

SemMaterials, L.P. (formerly Koch Mat'ls Co.)

The Pavement Depot/Dalton Enterprises

W.R. Meadows

Product:

Permaquik 6195

Road Saver 201

Product #9005

Crack-Rite HP3405

Hi-Spec

B. ITEM 413.2 - HOT POURED CRACK SEALANT (LOW MODULUS, AASHTO M 324, Type IV Modified)

Note: Acceptance of actual shipments will be based on test results of samples taken at the construction site.

Manufacturer:

Bemac Products (McAsphalt Industries)

Crafco, Inc.

Deery American Corp.

SemMaterials, L.P. (formerly Koch Mat'ls Co.)

Product:

BERAM 195 Low Modulus

Road Saver 231

DAC Hot Poured Crack Sealant DAC 101

Product #9030

SECTION 510 - BEARING PILES

A. ITEM 510.65 - DRIVING POINTS FOR STEEL BEARING PILES

Conforming to AASHTO M 103 (ASTM A27), Grade 65-35 or ASTM A148, Grade 90-60

Manufacturer:

Assoc. Pile & Fitting Corp.

Assoc. Pile & Fitting Corp.

Assoc. Pile & Fitting Corp.

Assoc. Pile & Fitting Corp.

Dougherty Foundation Prod., Inc.

Dougherty Foundation Prod., Inc.

Mid-America Foundation Supply

Piling Accessories, Inc.

Versabite Piling Accessories

Versa-Steel Inc.

Product:

Hard-Bite HP 77600-B

Hard-Bite HP 77750-B

Hard-Bite HP 7780-B *

Pruyn Point HP 75750-B

Tuftpuf Tufloy H-776 *

Tuftpuf Tufloy H-777 *

Model HPH **

Super-Bite PAR-T Series

Versa-Bite VB 300-P Series

Versa Steel VS-300N Series

* Available only in Grade 90-60

** Available only in Grade 65-35

SECTION 520 - PORTLAND CEMENT CONCRETE

A. FAST SET NON-SHRINK PATCHING MORTAR (For Bridge Deck Repairs)

Manufacturer:

Chemrex
 Conspec Marketing & Manufacturing
 Five Star Products
 Five Star Products
 Silpro Masonry Systems

Product:

ThoRoc 10-60 Rapid Mortar
 Pave Patch 3000
 Structural Concrete
 Structural Concrete V/O Patch **
 Fastcrete *

* High Early Strength (1000 psi minimum at 1 hour - lab)

** Recommended also for vertical/overhead patching

B. ACCELERATING ADMIXTURES

Contact the Concrete Supervisor at Materials & Research (271-3151) for products when required.

C. AIR ENTRAINING ADMIXTURES

Manufacturer:

Master Builders, Inc.
 Master Builders, Inc.
 Sika Corporation
 W.R. Grace & Co.
 W.R. Grace & Co.
 W.R. Grace & Co.

Product:

MB AE 90 *
 Micro-Air *
 Sika Air *
 Daravair 1000 *
 Daravair AT60 *
 Darex II *

*These concrete admixtures must be tested through the AASHTO NTPEP program by January 2008 to remain on the Qualified Products List.

D. WATER REDUCING ADMIXTURES

Manufacturer:

Degussa Admixtures, Inc.
 Degussa Admixtures, Inc.
 Master Builders
 Master Builders, Inc.
 Master Builders, Inc.
 Master Builders, Inc.
 Master Builders, Inc.
 W.R. Grace & Co.
 W.R. Grace & Co.
 W.R. Grace & Co.
 W.R. Grace & Co.
 W.R. Grace & Co.
 W.R. Grace & Co.

Product:

Glenium 3400 NV *
 PolyHeed 1020
 PolyHeed 1025
 Polyheed 997 (Midrange) *
 Pozzolith 200N *
 Pozzolith 220N *
 Rheobuild 1000 *
 Adva 100 *
 ADVA Flow *
 Daracem 55 (Midrange) *
 Daracem 65 (Midrange) *
 MIRA 70 *
 WRDA/HYCOL *

*These concrete admixtures must be tested through the AASHTO NTPEP program by January 2008 to remain on the Qualified Products List.

E. RETARDING ADMIXTURES

Manufacturer:

Master Builders, Inc.
 Master Builders, Inc.
 W.R. Grace & Co.

Product:

Pozzolith 100XR *
 Pozzolith 122R *
 Daratard 17 *

*These concrete admixtures must be tested through the AASHTO NTPEP program by January 2008 to remain on the Qualified Products List.

F. SUPERPLASTICIZERS (Type G)

Manufacturer:

Master Builders, Inc.
 W R Grace
 W.R. Grace
 W.R. Grace & Co.

Product:

Rheobuild 716 I *
 ADVA 170 *
 ADVA 140 *
 Daracem 100 *

*These concrete admixtures must be tested through the AASHTO NTPEP program by January 2008 to remain on the Qualified Products List.

G. CORROSION INHIBITORS

Manufacturer:

Master Builders, Inc.
Sika Corp
W.R. Grace & Co.
W.R. Grace & Co.

Product:

Rheocrete CNI *
CNI *
DCI *
DCI-S *

**These concrete admixtures must be tested through the AASHTO NTPEP program by January 2008 to remain on the Qualified Products List.*

H. CURING COMPOUNDS

See specifications for limitations regarding the use of curing compounds.

Manufacturer:

Bonsal American
L&M Construction Chemicals Inc.
Poly Sat Inc.

Product:

Bonsal Curing Compound
Cure R (w/fugitive dye)
Harris Super Konkure White

I. BONDING AGENTS (Fresh Concrete to Hardened Concrete)

Note: Bonding agents to be used only when specified. Application to be per manufacturer's recommendation.

Manufacturer:

Master Builders, Inc.

Product:

Concresive Liquid LPL

J. BONDING AGENTS (Fresh Concrete to Steel)

Note: Bonding agents to be used only when specified. Application to be per manufacturer's recommendation.

Manufacturer:

Sika Corp

Product:

Armatex 110

K. PLASTIC BEARING STRIP (For Expansion End)

Manufacturer:

Korolath of New England

Product:

Korolath PE (Contact Cement - Sikadur 31 Hi-Mod Gel)

L. CLOSED CELL EXPANSION MATERIAL

Use only when specified.

Manufacturer:

E-poxy Engineered Materials, LLC

Product:

Evazote 380 E.S.P. (w/ Eva-Pox Bonder No. 1)

M. CLOSED CELL FILLER MATERIAL

Manufacturer:

Dow Corning Corp.
Owens Corning

Product:

STYROFOAM
Foamular 250

N. POLYMER-MODIFIED, 2-COMPONENT, FAST SETTING CONCRETE PATCH

Use only when specified.

Manufacturer:

Sonneborn Building Prods./ChemRex

Product:

Sonopatch 200 with Sonocrete Acrylic Ad.

O. SELF-CONSOLIDATING CONCRETE ADMIXTURE

Contact the Concrete Supervisor at Materials & Research (271-3151) for products when required.

SECTION 526 - CONCRETE CRACK SEALERS

A. ITEM 526.2 - EPOXY FOR NON-MOVING CRACKS

<u>Manufacturer:</u>	<u>Product:</u>
Dayton Superior	Sure-Inject J-56
Dural International (TammsInd.)	Duralcrete
E-Poxy Industries, Inc.	Injection Resin #4
Hilti, Inc.	Hilti CI 060 EP Crack Injection System
Master Builders, Inc.	Concresive 1380
Master Builders, Inc.	Concresive 3009
Sika Corp (Cool Weather)	Sikadur 52
Sika Corp. (Warm Weather)	Sikadur 35
Sinmast	Sinmast Product #2

B. ITEM 526.3 - HIGH MOLECULAR WEIGHT METHACRYLATE CRACK SEALER

<u>Manufacturer:</u>	<u>Product:</u>
Sika Corp	SikaPronto 19

SECTION 529 - PRESTRESSED CONCRETE BRIDGE DECK

A. ITEM 529.1 - HIGH STRENGTH, IMPACT RESISTANT, NON-SHRINK GROUT

<u>Manufacturer:</u>	<u>Product:</u>
Conspec Marketing & Manufacturing Co.	Conspec 100 Non-Shrink Non-Metallic Grout
Dayton Superior	Suregrip High Performance Grout
Sonneborn Building Products/ChemRex	SonogROUT 14K Hy Flow

SECTION 530 - WATERPROOFING CONCRETE SURFACES

A. ITEM 530.3 - CEMENT BASE WITH ACRYLIC LATEX (2 Coats)

<u>Manufacturer:</u>	<u>Product:</u>
Degussa	ThoroSeal (Pearl Gray) w/Acryl 60
Tamms Industries	Tamoseal (Oyster Gray) w/AKKRO-7T

B. ITEM 530.3 - CEMENT BASE, POLYMER MODIFIED (2 Coats)

<u>Manufacturer:</u>	<u>Product:</u>
Degussa	ThoRoc Cement Coating (Gray)
Flexcrete Limited	Silcabond FCR 851 (Gray)
Tamms Industries	Duraltop Coating (Gray)

SECTION 532 - ANTI-GRAFFITI COATINGS

A. ITEM 532.1 - SEMI-PERMANENT ANTI-GRAFFITI COATINGS (CLEAR)

<u>Manufacturer:</u>	<u>Product:</u>
Professional Products of Kansas, Inc.	PROFESSIONAL Water Sealant Anti-Graffiti *, GRAFFITI FREE cleaner

* Coat #1 - Super-strength (15% solids), Coat #2 - Extra-strength (8% solids) or Super-strength, in accordance with manufacturer's recommendations

SECTION 534 - WATER REPELLENT

A. ITEM 534.1 - LINSEED OIL (Anti-spalling Compound)

Manufacturer:

A.H. Harris and Sons, Inc.
Dayton Superior
New England Paint Mfg. Co.
Tamms Industries

Product:

Harris Super Antispall Voc
Day-Chem Anti-Spall (J-33)
Locktite
Tri-Dar 66/1A

B. ITEM 534.3 - SILANE/SILOXANE

These products can be used when ambient and surface temperatures are 40 degrees and above.

Manufacturer:

Advanced Chemical Technologies, Inc.
ProSoCo, Inc.
ProSoCo, Inc.
Sivento Inc.
Vexcon Chemicals, Inc.

Product:

Sil-Act ATS 42
SL 100
SLX100
Dynasylan BH-N
Powerseal 40

C. ITEM 534.3 - SILANE/SILOXANE - COLD WEATHER

These products can be used when ambient and surface temperatures are 20 degrees and above.

Manufacturer:

Master Builders, Inc.
Sivento Inc.

Product:

Masterseal SL40
Chem-Trete BSM 40 VOC

SECTION 535 - EPOXY WATERPROOFING

A. ITEM 535.1 - BITUMEN EPOXY WATERPROOFING

Manufacturer:

Anti-Hydro Company
Kop-Coast Div./Carboline
Tamms Industries

Product:

A-H Coal Tar Epoxy 210
Bitumastic 300-M
Dural 306

SECTION 536 - EPOXY COATING FOR CONCRETE

A. ITEM 536.11 - EPOXY COATING FOR CONCRETE (Mortar Coat/Seal Coat)

Manufacturer:

Dural International (TAMMS Ind.)
Master Builders, Inc.
Master Builders, Inc.
Sika Corporation

Product:

Flexocrete Gel/Dural 304
Concresive 1180/Concresive 1490
Concresive 3013/Concresive 3025
Sikadur 23 LM Gel/Sikagard 62

B. ITEM 536.3 - HIGH BUILD, HIGH GLOSS, WHITE EPOXY COATING FOR CONCRETE

Manufacturer:

Dural International (Tamms)
Kaufman Products Inc.
Master Builders, Inc.
Master Builders, Inc.
Sika Corporation

Product:

Duralkote
Sure-Poxy Hi-Bild
Concresive 1170
Concresive 3026
Sikagard 62

SECTION 537 - CONCRETE SEALER

A. HIGH SOLIDS ACRYLIC SEALER (Two Coats)

Manufacturer:

A.H. Harris and Sons, Inc.
Silpro Corporation
Tamms

Product:

Certi-vex AC1315
Crete Seal
Luster Seal 300

B. FERROUS STAIN REMOVER

Manufacturer:

ProSoCo

Product:

Sure-Klean Ferrous Remover

SECTION 538 - BARRIER MEMBRANE**A. ITEMS 538.1 AND 538.2 - WARM WEATHER APPLICATION***(Temp. 40 Degs. F and rising)***Manufacturer:**

Royston Laboratories

Product:

10 AN Easy Pave, 713A Primer, 104CM Mastic

*Required Laydown Temperature - Hot Bituminous Pavement (538.3.5) = 290 - 330 deg. F***B. ITEM 538.2 - COOL WEATHER APPLICATION***(Temp. 25 Degs F and rising)***Manufacturer:**

Protecto Wrap Co.

Royston Laboratories Inc.

W.R. Meadows Inc.

W.R. Grace & Co

Product:

Jiffy Seal 140/60 Cold Weather, VOC 100 Primer, 160H Mastic

104-AHT, 740 Primer, 104CM Mastic

Seal Tight Mel-Rol, MEL-Prime VOC Solvent Base Primer, Elastomeric Mastic

Lo Temp Membrane, Bituthene Primer B2, Bituthene Mastic

C. PROTECTION BOARD FOR BARRIER MEMBRANE*(Use on membraned surfaces to be backfilled against)***Manufacturer:**

W.R. Grace & Co.

W.R. Meadows

W.R. Meadows

Product:

1.0" Closed-Cell Extruded Polystyrene Board

1/2" 100% Bituminous Impregnated Fiber Board

Bituthene Asphaltic Hardboard

Sealtight Melnar

Sealtight PC-2

D. ITEM 538.3 - BARRIER MEMBRANE, LIQUID SPRAY**Manufacturer:**

Stirling Lloyd Products

Product:

Eliminator, PAR 1 Primer, SA 1030 Tack Coat

*Required Laydown Temperature - Hot Bituminous Pavement (538.3.5) = 290 - 330 deg. F***E. ITEM 538.4 - BARRIER MEMBRANE, HOT RUBBERIZED ASPHALT***(For use along curb line with Items 538.5 and 538.6)***Manufacturer:**

Bemac Products (McAsphalt)

Henry Company

Hydrotech Membrane Corp.

Permaquik Corp.

Ultraseal Construction Products

Watson Bowman Acme Corporation

Product:

Bemalastic 1213 B.D.M.

790-11 MTO Grade

Hydrotech BDM

PQ 6100 BM

Ultraseal 3750

Wabo Expandex

F. ITEM 538.5 - BARRIER MEMBRANE, WELDED BY TORCH**Manufacturer:**

IKO Industries Ltd

Soprema Roofing & Waterproofing Inc.

Product:

Armour Bridge/Pont 4.5 mm *

Sopralene Flam Antirock Membrane, Antirock Primer & Tackcoat

*Required Laydown Temperature - Hot Bituminous Pavement (538.3.5) = 290 - 330 deg. F*** Use either Elastocol 500 Primer or Roofcraft Modified Asphalt Primer for both the primer and tack coat.***G. ITEM 538.6 - BARRIER MEMBRANE, WELDED BY TORCH - MACHINE METHOD****Manufacturer:**

IKO Industries Ltd

Soprema Roofing & Waterproofing Inc.

Product:

Armour Bridge/Pont 4.5 mm *

Sopralene Flam Antirock Membrane, Antirock Primer & Tackcoat

*Required Laydown Temperature - Hot Bituminous Pavement (538.3.5) = 290 - 330 deg. F*** Use either Elastocol 500 Primer or Roofcraft Modified Asphalt Primer for both the primer and tack coat.***H. URETHANE LIQUID MEMBRANE***Use only when specified.***Manufacturer:**

Gates Manufacturing

Royston Laboratories

W.R. Grace & Co.

Product:

Gacoflex LM60

163-99A

Bituthene LM-3000

I. MOISTURE METER (For concrete bridge decks)

Manufacturer:

Sovereign Chemical Industries, Ltd.
Tramex, Ltd

Product:

Dual Probe Moisture Master
Tramex Concrete Encounter

J. FIXED-ALIGNMENT ADHESION TESTER TYPE I

Manufacturer:

Proceq SA

Product:

Proceq Dyna Z6 Pull Off Tester with digital manometer *

* For testing of membrane and substrate as specified. Requires 50 mm test discs.

K. FIXED-ALIGNMENT ADHESION TESTER TYPE II

Manufacturer:

Elcometer Instruments, Ltd

Product:

Elcometer 106 Adhesion Tester, Scale 1

* For testing of substrate as specified. Requires 20 mm test discs.

SECTION 541 - WATERSTOPS (PVC)

A. ITEM 541.1 - NH TYPE 1

Manufacturer:

Greenstreak
Paul Murphy Plastics
Tamms
Vinylex
Vulcan

Product:

781 (Ribbed), 721 (Ribbed Split), 741 (Dumbbell)
FR-4316 (Ribbed)
300 (Ribbed Split), DB-8 (Dumbbell)
RB4-316 (Ribbed), RSB4-316 (Ribbed Split), D4-316 (Dumbbell)
8036 (Ribbed Split), 8040 (Dumbbell)

B. ITEM 541.2 - NH TYPE 2

Manufacturer:

Greenstreak
Paul Murphy Plastics
Tamms
Vinylex
Vulcan

Product:

703 (Ribbed), 723 (Ribbed Split)
CR-6316 (Ribbed), SR-6316 (Ribbed Split)
4B (Ribbed), 400 (Ribbed Split)
RB6-316 (Ribbed), RSB6-316 (Ribbed Split)
8021 (Ribbed), 8032 (Ribbed Split)

C. ITEM 541.3 - NH TYPE 3

Manufacturer:

Greenstreak
Paul Murphy Plastics
Tamms
Vinylex
Vulcan

Product:

780 (Ribbed), 757 (Dumbbell)
CR-6380 (Ribbed), SR-6380 (Ribbed Split)
4C (Ribbed), 400C (Ribbed Split)
RB6-14 (Ribbed), RSB6-14 (Ribbed Split), DBG-14 (Dumbbell)
8068 (Ribbed), 8028 (Dumbbell)

D. ITEM 541.4 - NH TYPE 4

Manufacturer:

Greenstreak
Tamms
Vinylex
Vulcan

Product:

696 (Ribbed), 753 (Ribbed Split)
7F (Ribbed), DB-6 (Dumbbell)
RLB9-38 (Ribbed), DB9-38 (Dumbbell), DSB9-38 (Dumbbell)
8077 (Ribbed), 8031 (Dumbbell)

E. ITEM 541.5 - NH TYPE 5

Manufacturer:

Greenstreak
Vinylex

Product:

769 (Ribbed)
L85-14 (Ribbed)

SECTION 548 - ELASTOMERIC BEARING PADS

A. EPOXY ADHESIVE FOR BEARING PADS

Manufacturer:

Delta Plastics Co.
Sika Corp.

Product:

Delta AS23-18 A&B Gel Type Epoxy Adhesive
Sikadur 32, Hi-Mod LPL Structural Epoxy Adhesive

SECTION 550 - STRUCTURAL STEEL**A. FAST SETTING GROUTS FOR ANCHOR BOLTS (550.3.15.4)****Manufacturer:**

Dayton Superior
Minwax Construction Products Division

Product:

Sure Grip Utility Grout
Super Por Rok

B. Not currently used.**C. PREFORMED FABRIC BEARING PADS (550.2.6)****Manufacturer:**

Beemer Precision Co.
Boston Industrial
Buckeye Rubber Products
Con-Serv
Elkhart Rubber
Fabreeka Products Co.
JVI Inc.
Voss Engineering

Product:

Beeco Preformed Fabric, Type 1
Viblon
Buckfab
PF Preformed Fabric Pad
Shockpad
Fabreeka Bearing Pad
Carpralon
Sorbtex

D. ITEM 550.29 - BRIDGE SHOES (ISOLATION BEARINGS)**Manufacturer:**

Dynamic Isolation Systems, Inc.
Earthquake Protection Systems, Inc.
R.J. Watson, Inc.
Seismic Energy Products, L.P.
Skellerup Oiles Seismic Protection, LLC

Product:

Elastomeric Isolator
Friction Pendulum
EQS Bearing
Elastomeric Isolator
Elastomeric Isolator

SECTION 552 - REHABILITATION OF EXPANSION BRIDGE SHOES**A. ITEM 552.2 - LUBRICATION (Lithium Base NGLI-2 Grade)****Manufacturer:**

Exxon
Texaco

Product:

Beacon P 290
Marfax (All Purpose)

SECTION 559 - JOINT SEAL**A. ITEM 559.4 - ELASTOMERIC PLUG TYPE EXPANSION JOINT****Manufacturer:**

Dynamic Surface Applications, Ltd
Dynamic Surface Applications, Ltd.
Pavetech International, Inc.
Watson Bowman Acme/Harris Specialty Chem
Wyoming Equipment Sales, Inc.

Product:

BJS with Road Repair Systems Material: BJ Super
Thorma-Joint with Road Repair Systems Material: BJ Super
Matrix 502 with Matrix 502 Polymer-Modified Bridge Joint Binder
Expandex Joint with Wabo Expandex Material
A.P.J. Asphalt Plug Expansion Joint System with APB binder

B. ITEM 559.5 - SILICONE JOINT SEALANT

The use of primer is required with these products unless waived by the Engineer.

Manufacturer:

Dow Corning Corp.
Dow Corning Corp.

Product:

Dow Corning 888 (Non-sag, for vertical and horizontal joints)
Dow Corning 890-SL (Self-leveling, for horizontal joints only)

SECTION 560 - PREFABRICATED COMPRESSION SEAL EXPANSION JOINT**A. PREFABRICATED COMPRESSION SEAL EXPANSION JOINT****Manufacturer:**

D.S. Brown
Elastomer
RUBATEX
Structural Accessories
Watson, Bowman & Acme

Product:

Delastic "CV" Series
"M" and "X" Series
"RPB" Series
"SA" Series
"WJ" Series

SECTION 561 - PREFABRICATED EXPANSION JOINT

A. PREFAB. EXPANSION JOINT "TYPE A" (STRIP SEAL)

Manufacturer:

D.S. Brown
ESCO Seal
Structural Accessories
Watson Bowman Acme

Product:

"A2, L2, H & NY" Series (SSA2, SSE2, SSCM2, SSPA steel shapes only)
E, A, M, C steel shapes only
"Onflex" Series
"SE" Series

B. PREFAB. EXPANSION JOINT "TYPE B" (BOX SEAL)

Manufacturer:

D.S. Brown
Watson, Bowman & Acme

Product:

"MA" Series
"D" Series

C. PREFORMED FABRIC TROUGH (Used with prefabricated finger joints)

Manufacturer:

Fabreeka Products Co.
Thermoid of H.B.D. Industries, Inc
Voss Engineering

Product:

Flexible Drain Trough
3-ply PNT 50 Saniwhite 3/64 x FS
15 oz. Flexible Drain Trough

SECTION 562 - ELASTOMERIC SEALANT

A. ELASTOMERIC SEALANT (Vertical and Horizontal Joints)

Contact the Bureau of Materials & Research, tel. 271-3151, if this product category is required.

SECTION 563 - BRIDGE RAILING

A. ANCHOR BOLTS W/RESIN ADHESIVE

Products are qualified based on a review of ICC-ES (www.icc-es.org) Evaluation Reports for the following ultimate capacities (embedment depth of 9 times the nominal anchor diameter): 3/4" dia. (28.4 kips), 7/8" dia. (39.25 kips), and 1" dia. (51.5 kips).

Manufacturer shall certify that the supplied system (materials, size, embedment, capacity) meets the design requirements specified.

Manufacturer:

Adhesives Tech. Corp (ATC) (fmrly U.S.Anchor)
Hilti, Inc.
Hilti, Inc.
Simpson Strong-Tie
Unitex

Product:

HS-200
HIT-RE 500
HSE 2421
SET High Strength Epoxy
Pro-Poxy 400

Note: Random proof test(s) of installed systems will be ordered by the Engineer.

B. AASHTO M 251 PADS

Manufacturer:

WARCO

Product:

50-E-52 (Neoprene) Pad

C. RANDOM-ORIENTED FIBER PADS

Manufacturer:

Fabreeka International
JVI
Voss Engineering Inc.

Product:

SA-47 Bearing Pads
Comcord Pads
VOSSCO

SECTION 566 - ELASTOMERIC JOINT SEAL

A. ELASTOMERIC JOINT SEAL

See qualified list for Section 560.

SECTION 581 - BRICK AND BLOCK MASONRY

A. ASPHALT-PRIMER (SOLVENT TYPE)

Manufacturer:

Sonneborn Products
Tamms Industries

Product:

Hydrocide 648
Dehydratine #4

SECTION 593 - GEOTEXTILES

A. ITEM 593.ABC - GEOTEXTILES

A= Application

1 = Subsurface Drainage

2 = Separation

3 = Stabilization

4 = Permanent Erosion Control

B = Strength Class

0 = Class 0 (Extra High Strength)

1 = Class 1 (High Strength)

2 = Class 2 (Medium Strength)

3 = Class 3 (Low Strength)

C = Structure

0 = Contractor Option

1 = Nonwoven (Default - Applic. 1 & 4)

2 = Monofilament, Woven

3 = Slit Filament, Woven

Manufacturer & Product		QUALIFIED FOR		
		A	B	C
		Application	Strength Class	Structure
Amoco Fabrics & Fiber Co.	Propex 4552	1,2,3,4	2,3	1
	Propex 4553	1,2,3,4	1,2,3	1
	Propex 2004	2,3	2,3	3
	Propex 4516	1,2,3,4	0,1,2,3	1
Carthage Mills		A	B	C
		Application	Strength Class	Structure
	FX-60HS	1,2,3,4	2,3	1
	Carthage 6%	2,3	2,3	2
GSE Lining Technologies, Inc.		A	B	C
		Application	Strength Class	Structure
	NW4	1,2,3	3	1
	NW6	1,2,3,4	2,3	1
	NW8	1,2,3,4	1,2,3	1
LINQ Industrial Fabrics, Inc.		A	B	C
		Application	Strength Class	Structure
	160EX	1,2,3,4	2,3	1
	180EX	1,2,3,4	2,3	1
SI Geosolutions, Inc.		A	B	C
		Application	Strength Class	Structure
	315ST	2,3	2,3	3
	104F	2,3	3	2
	401	1,2,3	3	1
	501	1,2,3	3	1
	601	1,2,3,4	2,3	1
	701	1,2,3,4	2,3	1
	801	1,2,3,4	2,3	1
	200ST	2,3	3	3

SECTION 593 - GEOTEXTILES (Cont'd)

A. ITEM 593.ABC - GEOTEXTILES (Cont'd)

A= Application

1 = Subsurface Drainage

2 = Separation

3 = Stabilization

4 = Permanent Erosion Control

B = Strength Class

0 = Class 0 (Extra High Strength)

1 = Class 1 (High Strength)

2 = Class 2 (Medium Strength)

3 = Class 3 (Low Strength)

C = Structure

0 = Contractor Option

1 = Nonwoven (Default - Applic. 1 & 4)

2 = Monofilament, Woven

3 = Slit Filament, Woven

Manufacturer & Product		QUALIFIED FOR		
		A	B	C
		Application	Strength Class	Structure
Skaps Industries				
	GT142	1,2,3	3	1
	GT160	1,2,3,4	2,3	1
	GT170	1,2,3,4	2,3	1
	GT180	1,2,3,4	1,2,3	1
US Fabrics, Inc.				
	US 670	2,3	2,3	2
	US 160NW	1,2,3,4	2,3	1
	US 180NW	1,2,3,4	2,3	1
WEBTEC, Inc.				
	Terratex HD	2,3	1,2,3	3
	Terratex GS-250	2,3	2,3	3
	Terratex N07	1,2,3,4	2,3	1
	Terratex N08	1,2,3,4	1,2,3	1

SECTION 603 - CULVERTS AND STORM DRAINS

A. POLYETHYLENE (HDPE)

Approved Manufacturers:

Manufacturer:

Advanced Drainage Systems, Inc.
Hancor, Inc.
Lane Enterprises, Inc.
Plasti-Drain Ltee.
Solenio, Inc.

Product:

Pipe in sizes up to 36 inch diameter
Pipe in sizes up to 36 inch diameter
Pipe in sizes up to 36 inch diameter
Pipe in sizes up to 36 inch diameter
Pipe in sizes up to 36 inch diameter

B. POLYVINYL CHLORIDE (PVC)

Approved Manufacturers:

Manufacturer:

Contech Construction Products

Product:

Pipe in sizes up to 36-inch diameter

SECTION 604 - CATCH BASINS, DROP INLETS, AND MANHOLES

A. FIBER REINFORCEMENT FOR PRECAST DRAINAGE STRUCTURES

Note: Use of fiber reinforcement is only allowed for drainage structures with a maximum diameter of 4'.

Manufacturer:

W.R. Grace

Product:

Strux 90/40 Fibers

SECTION 605 - UNDERDRAINS

A. POLYETHYLENE (HDPE)

Approved Manufacturers:

Manufacturer:

Advanced Drainage Systems, Inc.
Hancor, Inc.
Lane Enterprises, Inc.
Plasti-Drain Ltee.
Solenio, Inc.

Product:

Per specifications
Per specifications
Per specifications
Per specifications
Per specifications

B. POLYVINYL CHLORIDE (PVC)

Approved Manufacturers:

Manufacturer:

Contech Construction Products

Product:

Per Specifications

SECTION 606 - GUARDRAIL

A. COMPOSITE MATERIAL BLOCKS

Use only when specified.

Contact Materials & Research (271-3151) for products when required.

B. ITEM 606.9512 - IMPACT ATTENUATION DEVICE (Redirective), Test Level 2

Contact Materials & Research (271-3151) for products when required.

C. ITEM 606.9513 - IMPACT ATTENUATION DEVICE (Redirective) Test Level 3

Contact Materials & Research (271-3151) for products when required.

D. ITEM 606.9522 - IMPACT ATTENUATION DEVICE (Non-redirective), Test Level 2

Contact Materials & Research (271-3151) for products when required.

E. ITEM 606.9523 - IMPACT ATTENUATION DEVICE (Non-redirective), Test Level 3

Contact Materials & Research (271-3151) for products when required.

F. ITEM 606.1454 - BEAM GUARDRAIL TERMINAL UNIT EAGRT, 50 FT (15.2m)**Manufacturer:**

Road Systems, Inc
Trinity Industries, Inc.

Product:

SKT 350
ET-Plus (formerly ET-2000 Plus)

G. ITEM 606.1455 - BEAM GUARDRAIL TERMINAL UNIT EAGRT, 25 FT. (7.6 m)**Manufacturer:**

Road Systems, Inc
Trinity Industries, Inc

Product:

SKT 350
ET-2000 Plus

SECTION 609 - CURBS**A. CEMENT MORTAR FOR BRIDGE CURB BEDDING****Manufacturer:**

AH Harris
Conspec Marketing & Manufacturing Co.
Dayton Superior
Dayton Superior
Five Star Products
Master Builders, Inc.

Product:

Harris Construction Grout
Enduro #50
1107 Advantage Grout
Sure-Grip High Performance Grout
Structural Concrete
Set Grout

B. POLYESTER FIBERS FOR BITUMINOUS CURB**Manufacturer:**

Advanced Fiber Solutions, Inc
GFC Materials Co.
Kapejo Inc.
Specialty Fibers Direct

Product:

P440 Fibers, White or Black
Petroflex Type 450
Boni Fibers Type B
P440 Fiber, Black or White

SECTION 616 - TRAFFIC SIGNALS**A. SAW CUT LOOP SEALANT****Manufacturer:**

3M
Chemque, Inc.
Chemque, Inc.
Degussa
Dynatron/Bondo Corp.
RAI Products
RAI Products
Statler Paints

Product:

Loop Sealant
Q-Seal 290S Detector Loop Sealant
Q-Seal 296-06 Detector Loop Sealant
Gold Label All Season Loop Sealant (formerly Gold Label Loop Sealant)
Bondo P-606 Detector
Permanent Sealer 974
Pro-Seal 6006
Stat-A-Flex Poly Seal

SECTION 619 - MAINTENANCE OF TRAFFIC**A. TEMPORARY RAISED PAVEMENT MARKERS****Manufacturer:**

Astro Optics Corp.
Avery Dennison
Filtrona Extrusion (Davidson)
Filtrona Extrusion (Davidson)

Product:

Model TPM
Model 66
RPM Durable Pavement Marker
TOM Road Marker

SECTION 632 - RETROREFLECTIVE PAVEMENT MARKINGS**A. ITEM 632.1 - PREFORMED RETROREFLECTIVE TAPE, TYPE I (REMOVABLE)****Manufacturer:**

3M
Advance Traffic Markings
Brite-Line Technologies, Inc
Lafarge Road Marking
Trelleborg Industries
Trelleborg Industries

Product:

Series 620
ATM 200 Removable Construction Grade
Brite-Line Series 100 Removable Tape
Prismoline TRT Series T-2512
Trelleborg Removable Road Tape RY-140 (Yellow)
Trelleborg Removable Road Tape RW-140(White)

B. ITEM 632.5 - PREFORMED RETROREFLECTIVE TAPE, TYPE V

Note: This category is for longitudinal lines, legends, and symbols, except for the word "ONLY" and arrows.

Manufacturer:

3M
Brite-Line Technologies, Inc.

Product:

Series 380-I
Brite-Line Series 1000 Durable Tape

C. ITEM 632.6 - PREFORMED RETROREFLECTIVE TAPE, TYPE VI

Note: This category is for transverse markings, and the word "ONLY" and arrows.

Manufacturer:

3M
Brite-Line Technologies, Inc.

Product:

Series 380-I
Brite-Line Series 1000 Durable Tape

D. ITEMS 632.81 & 632.82 - RAISED PAVEMENT MARKERS (SINGLE, DOUBLE FACE)**Manufacturer:**

Astro Optics Corp.
Avery Dennison
Filtrona Extrusion (Davidson)

Product:

Model TPM
Model 66
RPM Durable Pavement Marker

E. Not currently used.**F. ITEM 632.9 - PREFORMED BLACKOUT TAPE, TYPE I (REMOVABLE)**

Note: This category is for temporary obliteration of pavement markings.

Manufacturer:

Advance Traffic Markings
Brite-Line Technologies, Inc.
Swarco Industries, Inc.
Trelleborg Industries

Product:

ATM 280 Hide A Line
Deltaline BTR
Director 2 Blackout Removable Tape
Trelleborg Removable Tape RB-140

SECTION 645 - EROSION CONTROL

A. ITEM 645.1 - MULCH

Manufacturer:

Product:

Outdoor World of New England

Kid Kushion Playground Mulch

Contact Roadside Development Section, Bureau of Highway Design, 271-6476

B. ITEM 645.21 - SLOPE STABILIZATION (2:1 OR FLATTER)

For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 271-6476.

Manufacturer:

Product:

American Excelsior Company

AEC Premier Straw DN (formerly SS-G2) (2:1 or less)

American Excelsior Company

AEC Premier Straw Double Net QuickMow (formerly SS-W2) (2:1 or less)

American Excelsior Company

AEC Premier Straw Single Net Quick Mow (formerly SS-W1) (3:1 or less)

American Excelsior Company

AEC Premier Straw SN (formerly SS-G1)(3:1 or less)

Conwed Fibers

Futerra

East Coast Erosion Blankets, LLC

ECS-1

East Coast Erosion Blankets, LLC

ECS-2

Greenfix America

WS05 (3:1 or less)

Greenfix America

WS052 (3:1 or less)

Hydrograss Corp.Com

Straw Erosion Blanket II BN

North American Green

DS150

North American Green

DS75 (3:1 or less)

North American Green

S150

North American Green

S150BN

North American Green

S75 (3:1 or less)

North American Green

S75BN (3:1 or less)

North American Green

SC150BN

PPS Packaging Co. (Western Excelsior)

Excel Regular

Rhino Seed & Landscape Supply

Rhino Erosion King Straw Blanket (Double net high velocity straw blanket)

SI Geosolutions (formerly Bonterra America)

Landlok S1 (3:1 or less) (6 fps)

SI Geosolutions (formerly Bonterra America)

Landlok S2 (3:1 or less) (10 fps)

Verdyol Plant Reasearch, LTD

Contech SFB1

Verdyol Plant Reasearch, LTD

Contech SFB2

Verdyol Plant Reasearch, LTD

Contech SFB2BD

Western Excelsior Corporation

XCEL CS-3 All Natural

Western Excelsior Corporation

XCEL SR-1 (3:1 or less)

Western Excelsior Corporation

XCEL SR-1 All Natural (3:1 or less)

Western Excelsior Corporation

XCEL SS-2

Western Excelsior Corporation

XCEL SS-2 All Natural

Western Excelsior Corporation

XCEL SS-2 w/rapid go netting

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer.

These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.

C. ITEM 645.22 - SLOPE STABILIZATION (STEEPER THAN 2:1)

For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 271-6476.

Note: Products in this category are also acceptable for use under Item 645.21

<u>Manufacturer:</u>	<u>Product:</u>
American Excelsior Company	Curlex I
American Excelsior Company	Curlex II
American Excelsior Company	Curlex Quickgrass
East Coast Erosion Blankets, LLC	ECSC-2
Greenfix America	C4
Greenfix America	C7
Greenfix America	CF072B
Greenfix America	CF072RR
Greenfix America	CFS072B
Greenfix America	CFS072R
Greenfix America	WS072
Greenfix America	WS072B
Hydrogras Corp. Com	Straw Erosion Blanket II BN
North American Green	C125
North American Green	C125BN
North American Green	SC150
North American Green	SC150BN
PPS Packaging Co. (Western Excelsior)	Excel Super Duty
PPS Packaging Co. (Western Excelsior)	Excel Superior
SI Geosolutions (formerly Bonterra America)	Landlok CS2
Verdyol Plant Reasearch, LTD	Contech CFB2
Verdyol Plant Reasearch, LTD	Contech CFB2BD
Verdyol Plant Reasearch, LTD	Contech SCFB2
Verdyol Plant Reasearch, LTD	Contech SCFB2B
Western Excelsior Corporation	XCEL CC-4
Western Excelsior Corporation	XCEL CC-4 All Natural
Western Excelsior Corporation	XCEL CS-3
Western Excelsior Corporation	XCEL CS-3 All Natural

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer.

These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.

D. ITEM 645.23 - CHANNEL STABILIZATION (LOW VELOCITY)

For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 271-6476.

<u>Manufacturer:</u>	<u>Product:</u>
American Excelsior Company	Curlex I (5 fps max.)
American Excelsior Company	Curlex II (7 fps max.)
American Excelsior Company	Curlex Quickgrass (5 fps max.)
Greenfix America	WS05 (6 fps max.)
Greenfix America	WS052 (8 fps max.)
Greenfix America	WS072 (9 fps max.)
Greenfix America	WS072B (9 fps max.)
Hydrogras Corp. Com	Straw Erosion Blanket II BN
Indian Valley Industries, Inc.	Sedimat
North American Green	SC150 (8 fps max.)
North American Green	SC150BN (8 fps max.)
PPS Packaging Co. (Western Excelsior)	Excel Regular (5 fps max.)
PPS Packaging Co. (Western Excelsior)	Excel Superior (7 fps max.)
Synthetic Industries	Landlok 407 GR (5 fps max.)
Verdyol Plant Reasearch, LTD	Contech CFB2(12fps)
Verdyol Plant Reasearch, LTD	Contech SCFB2(10 fps)
Verdyol Plant Reasearch, LTD	Contech SCFB2B (10 fps)
Western Excelsior Corporation	XCEL CS-3
Western Excelsior Corporation	XCEL CS-3 All Natural
Western Excelsior Corporation	XCEL R-1 Green Dyed (5fps max)

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer.

These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.

E. ITEM 645.24 - CHANNEL STABILIZATION (HIGH VELOCITY)

For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 271-6476.

Note: Products in this category are also acceptable for use under Item 645.23

<u>Manufacturer:</u>	<u>Product:</u>
American Excelsior Company	Curlex III (HV) (10 fps max)
Greenfix America	C4 (10 fps max.)
Greenfix America	C7 (10 fps max.)
Greenfix America	CF072B (14 fps max.)
Greenfix America	CFS072B (10 fps max.)
Greenfix America	CFS072R (10 fps max.)
Greenfix America	CFS072RR (14 fps max.)
North American Green	C125 (10 fps max.)
North American Green	C125BN (10 fps max.)
PPS Packaging Co. (Western Excelsior)	Excel Superduty (12 fps max.)
SI Geosolutions (formerly Bonterra America)	Landlok C2 (15 fps max.)
Verdyol Plant Reasearch, LTD	Contech CF4
Verdyol Plant Reasearch, LTD	Contech CF7
Verdyol Plant Reasearch, LTD	Contech CF9
Verdyol Plant Reasearch, LTD	Contech CFB2 (12 fps)
Western Excelsior Corporation	XCEL CC-4

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer.

These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.

F. ITEM 645.25 - PERMANENT STABILIZATION

For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 271-6476.

<u>Manufacturer:</u>	<u>Product:</u>
Colbond Geosynthetics	Enkamat 7010 (Slopes & Channels)
Colbond Geosynthetics	Enkamat 7020 (Slopes & Channels)
North American Green	C350 (10-18 fps)
North American Green	P300 (9-14 fps)
PPS Packaging Co. (Western Excelsior)	Excel Permamat-100 (Slopes & 7-12 fps Channels)
PPS Packaging Co. (Western Excelsior)	Excel Permamat-200F (Slopes & 7-12 fps Channels)
Synthetic Industries	Contech TRM C-35
Synthetic Industries	Contech TRM C-45
Synthetic Industries	Contech TRM C-50
Synthetic Industries	Contech TRM C-60
Synthetic Industries	Contech TRM C-61
Synthetic Industries	LandLok TRM1060 (8-20 fps)
Synthetic Industries	LandLok TRM450 (8-18 fps)
Synthetic Industries	Pyramat
Webtec, Inc.	Terra Jute (Slopes)
Western Excelsior Corporation	XCEL PP-5-10
Western Excelsior Corporation	XCEL PP-5-12

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer.

These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.

G. ITEM 645.531 - SILT FENCE

For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 271-6476.

Note: In addition to those products meeting NHDOT specifications under this category, the following products are qualified for use:

<u>Manufacturer:</u>	<u>Product:</u>
Environmental Research Corp.	BioFence

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer.

These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.

H. TACKIFIERS

For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 271-6476.

Manufacturer:

Acadia Eco-Products
CHEMSTAR
CHEMSTAR
Eastern Products, Inc.
Eastern Products, Inc.
Erosion Control Technologies
Reinco Inc.

Product:

Earth Bond
StarTak 100
StarTak 600
Ecotak OP
Ecotak Sat
EC3000
Reinco RMBplus

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer.

These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.